

```
/gene="gyrA"
/codon_start=1
/transl_table=11
/product="DNA gyrase subunit A"
/protein id="CAA06715.1"
/db xref="GI:4138535"
/db xref="GOA:Q9R867"
/db xref="UniProt/TrEMBL:Q9R867"
translation="MQDKNLVNVNLTKEMKASFIDYAMSVIVARALPDVRDGLKPVHR/
RILYGMNELGVTPDKPHKKSARITGDVMGKYHPHGDSSIYEAMVRMAQWWSYRYMLVD
GHGNFGSMDGDSAAAQRYTEARMSKIALEMLRDINKNTVDFVDNYDANEREPLVLPAR
FPNLLVNGATGIAVGMATNIPPHNLGETIDAVKLVMDNPEVTTKDLMEVLPGPDFPTG
ALVMGKSGIHKAYETGKGSIVLRSRTEIETTKTGRERIVVTEFPYMVNKTKVHEHIVR
LVQEKRIEGITAVRDESNREGVRFVIEVKRDASANVILNNLFKMTQMQTNFGFNMLAI
QNGIPKILSLRQILDAYIEHQKEVVVRRTRFDKEKAEARAHILEGLLIALDHIDEVIR
IIRASETDAEAQAELMSKFKLSERQSQAILDMRLRRLTGLERDKIQSEYDDLLALIAD
LADILAKPERVSOIIKDELDEVKRKFSDKRRTELMVGQILSLEDEDLIEESDVLITLS
NRGYIKRLDODEFTAOKRGGRGVQGTGVKDDDFVRELVSTSTHDHLLFFTNKGRVYRL
KGYEIPEYGRTAKGLPVVNLLKLDEDESIQTVINVESDRSDDAYLFFTTRHGIVKRTS
VKEFANIRQNGLKALNLKDEDELINVLLTEGDMDIIIGTKFGYAVRFNQSAVRGMSRI
ATGVKGVNLREGDTVVGASLITDQDEVLIITEKGYGKRTVATEYPTKGRGGKGMQTAK
ITEKNGLLAGLMTVQGDEDLMIITDTGVMIRTNLANISQTGRATMGVKVMRLDQDAQI
VTFTTVAVAEKEEVGTENETEGEA"
```

ORIGIN

```
1 aagettettg gaattetggg tittteeatg ettegteaat gatagettge aattetitag
 61 cagatgcttg cattttttga gtttctgcgt cgttcaatgg gatatttact ggacgaacaa
 121 taccatgtgc accaacaaca gctggttgac cgataaagac gttctcaact ccgtattgac
181 cttcttggaa tactgaaagt ggaagtactg cattttcatc gtcaaggatt gctttagtga
241 tacgagcaag ggctacagcg ataccgtagt atgttgcacc ttttttgttg atgattgtgt
 301 aggctgcatc acgaacacct tcgaacaatt caatcaattc agcttcttga acattttgag
 361 tatotttaag gaattottoa aggtttacao cagogatgtt agogtgtgao caaacagoga
 421 actcagagtc acceptettca cccategatet aggcetegaac tegaacegaeca tctacetcca
 481 atttttcagc aagtgettga eggaaaegag etgagteaag tgaagtaeet gaaeegataa
 541 cgcgttcttt agggaaacca gagaatttcc aagttgagta agtcaaaacg tcaactgggt
 601 tagcagcaac aaggaagata cctttgaaac ctgattcaac aacttgagtt acgattgatt
 661 tgttgatagc aaggttttta cctacaaggt caagacgagt ttcacctggt ttttgaggag
 721 cacctgcagt gatcacaaca aggtcagcgt ctgcacagtc agagtattga gctgcataga
 781 ttttttagg tgaagtgaag gcaagggcgt gactaaggtc aagcgcatca ccaacagctt
 841 tttcatgcaa ttgtggaatt tcgataattc caagctcttg tgcaattcct tggttaacaa
 901 gtgcaaaagc gtaagatgaa cctacagcac catcaccgac aaggataact tttttgtgtt
 961 gtttagttga agtcattgtt ttaaacatct ccttaatttt attaggggat tttccctaga
1021 caacttcatt ctatcacttt taaaaaactt tgtcacgaat atgccttata gttctcgatg
1081 taaacgtttt agtggtttag aggctgaaat agatgggaat ttatggtata atgttgttac
1141 ttactaattg tgaaatgagg catttattaa tgcaggataa aaatttagtg aatgtcaatc
1201 tgacaaagga gatgaaggca agttttatcg actacgccat gagtgttatc gtagcgcgag
1261 ctcttcctga tgttcgagat ggcttaaaac ctgttcaccg tcgcattctt tacggaatga
1321 atgaattggg tgtgacccca gacaaacccc ataaaaaatc tgctcgtatt acaggggatg
1381 tcatgggtaa atatcaccca cacggggatt cctctattta tgaagccatg gttcgtatgg
1441 ctcaatggtg gagctaccgt tacatgcttg tagatggtca tgggaatttt ggttccatgg
1501 atggagatag tgctgccgct caacgttata ccgaggcacg tatgagcaag attgctctgg
1561 aaatgetteg tgatateaac aaaaatacag ttgatttegt tgataactat gatgeeaatg
1621 aacgggaacc cttggtcttg ccagcgcgtt ttccaaacct tttggttaat ggagcaactg
1681 gtatcgcggt tgggatggca accaatattc cacctcataa tctgggtgaa accattgatg
1741 cagtgaagtt ggtcatggat aatcctgaag tgactaccaa ggacttgatg gaagtcttgc
1801 ctggaccaga ttttccaact ggtgctcttg tcatggggaa atcaggtatc cataaggctt
1861 atgaaacagg taaaggttcg attgtcctac gttctcgtac agagattgaa acgactaaga
1921 ctggtcgtga gcgtatcgtt gtaacagaat ttccttacat ggtcaataaa accaaggtgc
1981 atgagcatat tgttcgcttg gttcaggaaa aacgcattga gggtatcaca gcagtacgtg
2041 atgagtcaaa ccgtgaaggt gttcgatttg ttattgaagt caagcgcgac gcctcagcca
2101 atgttattct caataacctc ttcaaaatga cccaaatgca aaccaatttt ggtttcaata
```

BEST AVAILABLE COPY

11

```
2161 tgctcgctat ccaaaatggt ataccgaaaa ttttgtctct tcgtcagatt ttggatgctt
2221 atattgagca ccaaaaagaa gtggttgttc gtcgtacacg ttttgataag gaaaaagcgg
2281 aagcgcgcgc tcatatctta gaaggtctct tgattgcgct agaccatatc gacgaagtga
2341 ttcgtatcat ccgtgctagt gaaacggatg cggaagctca agctgagttg atgagcaagt
2401 ttaagctttc tgaacgtcaa agtcaagcta tccttgatat gcgtcttcgt cgtttgacag
2461 gtttggaacg cgataagatt caatctgagt atgatgacct cttggctctg attgcggatt
2521 tagcagatat tcttgctaag cctgaacgtg tttctcaaat tatcaaagac gaattggatg
2581 aagttaaacg taaattttct gataaacgcc gtacagagtt gatggttgga cagatcttga
2641 gtctcgagga tgaggacttg attgaagaat cggatgtctt gattaccctt tctaacagag
2701 gctacattaa gcgtttggat caggacgagt tcactgctca aaaacgtggg ggtcgtggtg
2761 tccaaggaac gggagtgaaa gatgatgact ttgttcgtga gttagtgtca actagcaccc
2821 atgatcatct gctcttcttc acaaacaagg gacgtgtcta tcgtcttaaa ggttatgaaa
2881 ttcctgagta tggtcggact gccaaagggc taccagtagt caatctcttg aaattggatg
2941 aagatgaaag tattcagacg gttatcaatg ttgagtctga tcgcagtgat gatgcttatc
3001 tottotttac aaccogtcac ggtattgtga agagaactag tgttaaggag tttgccaata
3061 ttcgtcaaaa tggtctcaaa gcgctgaatt taaaggatga agatgagtta atcaatgtct
3121 tgttgacaga aggagatatg gatattatca ttggtaccaa gtttggttat gcagttcgct
3181 ttaatcaatc agccgttcgt ggtatgagcc gtatcgccac tggtgtgaaa ggtgttaacc
3241 ttcgtgaagg agacacagtt gttggtgcca gcttgattac tgatcaagat gaggttctta
3301 ttatcacaga aaaaggatat ggtaagcgta cagtcgctac tgaataccca acaaaaggtc
3361 gtggtggtaa gggaatgcag acagctaaaa ttaccgaaaa aaatggcttg ctggccggtc
3421 ttatgactgt tcaaggggat gaggatttga tgattatcac tgatacaggt gtcatgattc
3481 gaaccaatct tgccaatatt tcacaaacag gacgtgcaac tatgggagtt aaagtaatgc
3541 gcctggatca agatgctcag atagtgactt tcacaacggt tgcggtggca gaaaaagaag
3601 aagttgggac agaaaacgaa acagaaggtg aagcataatg tctcaaaaaa ataataaaaa
3661 gaaaaacaag cgaaaaaatc tgctgacaaa tatcctagca ggatttctga tattactgtc
3721 actggctttg atttttaata ctcaaattcg aaatattttc atagtctgga ataccaataa
3781 gtatcaagtt agccaggtat caaaagaaaa attagaagaa aatcaggata cagaaggcaa
3841 ttttgacttt gattctgtca aagctatctc ttcggaagct gttctaactt ctcaatggga
3901 tgctcaaaaa ttaccagtta ttgggggaat tgcaattcct gaattggaaa tgaatttgcc
3961 gatttttaaa ggacttgata atgttaatct cttctacgga gctggtacaa tgaaacgcga
4021 gcaagtaatg ggagaaggaa attatagtct agctagtcac catatctttg gtgttgataa
4081 tgctaataaa atgttatttt ctcctttaga taatgctaaa aatggcatga agatttatct
4141 aaccgataaa aataaagttt atacttatga aatacgtgaa gtcaaacgtg tgacaccgga
4201 tcgtgttgat gaagttgatg atagagatgg ggtcaatgaa atcacattag taacctgtga
4261 agaccttgct gctacagaac gtattattgt caaaggtgat ttgaaagaaa caaaagatta
4321 ttcacaaaca tctgatgaaa tcctgacagc tttcaatcaa ccatataaac aattttatta
4381 atacaaatca gtgaaatcat ggatttcact gattttttaa gattttcata aaaatatagt
4441 aaaatgaaat aagaatagga cgaatcgttc aggacagtca aatcgatttc taacaatgtt
4501 ttagaagtag aggtgtacta ttctagtttc aatctactat aaacttttat gaaatacaga
4561 aaacgcttcc taaaacctaa agtttgtgat ataattatca agaaaaaaga tttaggagtt
4621 tattatgatt tottoagaat ttatotoaaa gattgaattt gottgoaata agaaagaaag
4681 totttatagt caaagcaaat ttaagtatgc gattcgttcg atattcgcag gtgc
```

Disclaimer | Write to the Help Desk NCBI | NLM | NIH

Nov 8 2004 13:44:10

BEST AVAILABLE COPY